

## **APPENDIX A:**

### **More About the South Dakota Mathematics Revision Committee Members**

**Roxie Ahlbrecht**, 2nd Grade Classroom Teacher, Sioux Falls Public School District 49-5  
South Dakota Teacher of the Year  
2004 Presidential Award for Excellence in Mathematics and Science Teaching  
2002 K-6 Mathematics National Board Certified Teacher, Middle Childhood Generalist,  
2001 South Dakota Council of Teachers of Mathematics, Member

**Jay Berglund**, Secondary Mathematics Teacher, Gettysburg School District  
South Dakota Council of Teachers of Mathematics, Member

**Steve Caron**, Secondary Mathematics Teacher, Aberdeen Public School 6-1  
State Level Presidential Awardee for Excellence in Mathematics and Science Teaching,  
6 times South Dakota Council of Teachers of Mathematics, Vice President

**Mary Jo Christensen**, 2nd Grade Teacher, Webster School District  
Presidential Award for Excellence In Science and Mathematics, 1999 Elementary  
Mathematics

**Ellie Cooch**, 8th Grade Mathematics Teacher, Spearfish School District  
Presidential Award for Excellence in Mathematics and Science Teaching, 7-12  
Mathematics 1999 South Dakota Council of Teachers of Mathematics, Member National  
Board Certified Teacher, Candidate

**James Cutshaw**, 7th Grade and Sheltered Mathematics Teacher, Sioux Falls Public  
School District 49-5 South Dakota Council of Teachers of Mathematics, Member

**Marinela Cyriacks**, English Language Learner Instructor, Huron School District 02-2

**Carol DeVries**, 4th Grade Teacher, Bennett County School District, Bennett County  
Education Association, President

**Dr. Ralph Erion**, Professor of Educational Leadership, South Dakota State University

**Kathleen Famestad**, Special Education Teacher, Sioux Falls Public School District 49-5  
South Dakota Education Association, Leadership Award  
Family Matters Award, Sioux Falls Public School District  
District Curriculum Committee Member, Language Arts, Science and Social Studies  
Nominee for Presidential Award for Excellence in Mathematics and Science Teaching,  
2003

**Debra Ford**, 4th Grade Teacher, Chamberlain School District  
District Math Curriculum Committee Member  
Who's Who in American Education  
Delta Kappa Gamma, Past Treasure

**Jean Gomer**, 7-12 Mathematics Teacher, Deubrook Area Schools  
South Dakota Council of Teachers of Mathematics President 2002-2004  
Presidential Award for Excellence in Mathematics and Science Teaching, 7-12  
Mathematics, 1997

**Doug Heller**, 7-8 Mathematics and Reading Teacher, Huron Public Schools  
South Dakota Association of Middle Level Educators, Past President  
South Dakota Council of Mathematics Teachers, Member  
Who's Who in American Education

**Kelly Hinds**, 4th Grade Teacher, Aberdeen Public Schools  
National Board Certified Teacher, Candidate  
South Dakota Reading Teacher of the Year, 2001

**Allen Hogie**, Secondary Mathematics Instructor, Brandon Valley School District  
Teacher of the Year Nominee, Brandon Valley School District, 1997  
South Dakota Council of Teachers of Mathematics, Member

**Charles Holmstrom**, High School Mathematics Instructor, Sioux Falls Public School  
District 49-5  
South Dakota Teachers of Mathematics, President 2004 - 2006  
Adjunct Professor, Colorado Technical University, Sioux Falls Branch SDCTM Award  
for Distinguished Service in SD Mathematics Education, 2001

**Vicki Kapust**, Associate Director, Center for the Advancement of Mathematics and  
Science Education, Black Hills State University Middle-level Math Specialist and  
Professional Development Provider Medallion of Excellence, Natrona County School  
District, (Casper, WY)

**Leo Keiser**, High School Mathematics Instructor, Beresford Schools  
Presidential Award for Excellence in Mathematics and Science Teaching, 7-12  
Mathematics, 1996  
Eisenhower Committee Member for Southeast Area Cooperative  
Adjunct Instructor, Kilian Community College  
South Dakota Council of Teachers of Mathematics, Member

**Susan Kessel**, 8th Grade Mathematics Teacher, Meade County School District 46-1  
District Math Curriculum Committee Member

**Cynthia Kroon**, High School Mathematics Instructor, Montrose School District 43-2  
Presidential Award for Excellence in Mathematics and Science Teaching, 7-12  
Mathematics, 2001  
Radio Shack National Teacher Award, 2001  
South Dakota Council of Teachers of Mathematics Secretary and Webmaster

**Brady Lunde**, Middle School Mathematics Teacher, Watertown School District  
District Curriculum Committee Member  
Past President of Watertown Education Association  
Past President of the South Dakota Association of Middle Level Educators  
South Dakota Council of Teachers of Mathematics, Member

**Jan Martin**, Coordinator of Assessment and Evaluation, Todd County School District  
Outstanding Research Paper, American Educational Research Association

**Diana McCann**, Middle School/High School Mathematics, Bon Homme School District  
4-2  
Presidential Award for Excellence in Mathematics and Science Teaching, K-6  
Mathematics, 1993  
Distinguished Service Award in Mathematics  
Who's Who in American Education, Who's Who in Teaching, Who's Who in American  
Women  
South Dakota Council for Teachers of Mathematics, Treasurer  
State Coordinator for Presidential Awards in South Dakota  
South Dakota Council of Teachers of Mathematics, Member

**Patricia Moore**, 6th Grade Mathematics Teacher, Brookings School District

**Dr. Curtis Olson**, Chairperson and Associate Professor of Mathematical Sciences,  
University of South Dakota  
South Dakota Council of Teachers of Mathematics, Newsletter Editor

**Michele Perrizo**, 4th Grade Teacher, Aberdeen Public Schools

**Patricia Reiners**, 7th Grade Mathematics Instructor, West Central School District  
Mathematics Department Head, 1997-2003  
West Central Middle School Teacher of the Year, 2001  
West Central School District Teacher of the Year, 1999  
South Dakota Council of Teachers of Mathematics, Member

**Marie Ritten**, Secondary Mathematics Coordinator, Rapid City Area Schools  
Advanced Placement Calculus Grader/Consultant, ETS  
Golden Apple Award, 2002  
South Dakota Council of Teachers of Mathematics, Member  
Who's Who Among America's Teachers  
Rapid City Schools Math Vertical Team

**Kimberly Schara**, 6th Grade Mathematics, Science and Reading Teacher, Rapid City Area Schools  
Teacher of Distinction, 2002-2003, Rapid City Area Schools  
District Mathematics Curriculum Committee  
Building Leadership Team

**Robert Schuh**, High School Mathematics Teacher, McIntosh School District 15-1  
Mathematics Mentor  
South Dakota Council of Teachers of Mathematics, Member and Past Vice-President

**James Stearns**, 8-12 Math, Science and Computer Teacher, Bristol School District 18-1  
Bristol School District Technology Coordinator  
Bristol Education Association, President  
South Dakota Science Teachers Association, Newsletter Editor  
LRC Math Chairman

**Doris Stiles**, 4th Grade Teacher, Pierre Public Schools  
SD Destination Imagination, State Board Member  
SD Association of Gifted Children, State Board Member  
Delta Kappa Gamma, Beta Chapter President  
Pierre Public Schools Professional Development Committee  
South Dakota Council of Teachers of Mathematics, Member

**Anne Thompson**, Secondary Mathematics Instructor, Sioux Falls Public School District 49-5  
Presidential Award for Excellence in Mathematics and Science Teaching, 7-12 Mathematics, 1991

**Sandy Ullrich**, 2nd Grade Teacher, Aberdeen Public Schools  
Delta Kappa Gamma, Past President

**Rebecca Umenthum**, 6th Grade Mathematics Teacher, Belle Fourche School District  
National Board Certified Teacher, Early Adolescence Mathematics, 2001  
Presidential Award for Excellence in Math and Science Teaching, Secondary Mathematics, 1995  
South Dakota Council of Teachers of Mathematics, Member

**Gloria Vavra**, 4-8 Teacher, Spring Valley Colony, Wessington Springs School District  
Building Principal  
South Dakota Council of Teachers of Mathematics, Member  
Dakota TESL Member  
District Mathematics, Reading and Gates Grant Committees

**Nancy Ward**, Elementary Mathematics Coordinator, Rapid City Area Schools  
Seeing Math Project, Site Facilitator  
Strategic Tutoring, Trainer  
South Dakota Council of Teachers of Mathematics, Member

**Dr. Don Wiken**, Associate Professor, College of Education, Dakota State University

**APPENDIX B:  
RESOURCES REFERENCED  
BY THE SOUTH DAKOTA REVISED MATHEMATICS CONTENT  
STANDARDS COMMITTEE**

**SD Content Standards for K-12 Mathematics**

Technical Guide to the South Dakota Mathematics Standards, 1998  
Essential Core Standards for Mathematics, 2002

**Other State Content Standards for K-12 Mathematics**

Alabama Course of Study, 1997  
California Mathematics Content Standards, 1997  
Kansas Curriculum Standards for Mathematics, 1999  
Massachusetts Mathematics Curriculum Framework, 2000  
North Carolina Mathematics Curriculum, 1999  
Ohio K-12 Mathematics Content Standards, 2001  
Vermont Framework of Standards and Learning Opportunities, 2000

**Professional Publications**

NCTM Principles and Standards for School Mathematics, 2000  
Mathematics Framework for the 2003 National Assessment of Educational Progress,  
2002  
Every Child Mathematically Proficient: An Action Plan of the Learning First Alliance,  
1998  
Making Standards Matter, American Federation of Teachers, 2001  
Rethinking School Reform, Fordham Foundation, 2003

## APPENDIX C: Annotated List of South Dakota Mathematics Resources

***Adding It Up: Helping Children Learn Mathematics***, Jeremy Kilpatrick, Jane Swafford, Bradford Findell, *Editors*; Mathematics Learning Study Committee, National Research Council (2001) <http://www.nap.edu/catalog/9822.html>

This book explores how students in pre-kindergarten through eighth grade learn mathematics and recommends how teaching, curricula, and teacher education should change to improve mathematics learning during these critical years. It also discusses what is known from research about teaching for mathematics proficiency, focusing on the interactions between teachers and students around educational materials and how teachers develop proficiency in teaching mathematics.

***Helping Children Learn Mathematics***, Jeremy Kilpatrick and Jane Swafford, *Editors*, Mathematics Learning Study Committee, National Research Council (2002) <http://www.nap.edu/catalog/10434.html>

This report provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre-kindergarten through eighth grade. The authors explain the five strands of mathematical proficiency and discuss the major changes that need to be made in mathematics instruction, instructional materials, assessments, teacher education, and the broader educational system and answers some of the frequently asked questions that emerge regarding mathematics instruction. The report concludes by providing recommended actions for parents and caregivers, teachers, administrators, and policy makers, stressing the importance of all stakeholders working together to ensure a mathematically literate society.

***National Council of Teachers of Mathematics*** <http://www.nctm.org>  
NCTM is a public voice of mathematics education, providing vision, leadership, and professional development to support teachers in ensuring mathematics learning of the highest quality for all students. Founded in 1920, NCTM is the world's largest mathematics education organization, with nearly 90,000 members and 250 affiliates throughout the United States and Canada.

***Principles and Standards for School Mathematics***, NCTM (2002) <http://standards.nctm.org/>

This crucial document updates the messages of NCTM's previous *Standards* and shows how student learning should grow across four grade bands— pre-kindergarten through second grade, third grade through fifth grade, sixth grade through eighth grade, and ninth grade through twelfth grade. It incorporates a clear set of principles and an increased focus on how students' knowledge grows as shown by recent research. It also includes ways to incorporate the use of technology to make mathematics instruction relevant and effective in a technological world.

***Illuminations:*** <http://illuminations.nctm.org/>

The Illuminations site is designed to "illuminate" the NCTM *Principles and Standards for School Mathematics*. The site contains a growing array of Internet resources that can be used to improve the teaching and learning of mathematics. This site is part of the Marcopolo project, funded by MCI Worldcom.

***McREL Mid-continent Eisenhower Regional Consortium for Mathematics and Science***  
<http://www.mcrel.org/erc/>

McREL ERC was established in 1992 by the National Eisenhower Program for Mathematics and Science Education as one of ten regional consortia across the United States. The mission of McREL ERC is to promote and support systemic reform in mathematics and science education in its seven-state region. McREL ERC serves the states of Colorado, Kansas, Missouri, Nebraska, North Dakota, South Dakota, and Wyoming. To facilitate change, McREL ERC collaborates with state departments of education, post-secondary institutions, National Science Foundation-funded initiatives, school districts, and other state and federal agencies.

***South Dakota Council of Teachers of Mathematics*** <http://www.sdctm.org>

The purpose of the South Dakota Council of Teachers of Mathematics is to encourage and maintain an active interest in and an appreciation of mathematics; promote professional growth of mathematics educators; provide a forum for the exchange of views regarding the teaching of mathematics; develop a cohesive link between and to promote the cooperative study of mathematics education at all levels; integrate the study of mathematics into other areas of school curriculum; and relate the study of mathematics to situations in life. SDCTM hosts a conference each February and a symposium each August to help achieve the goals listed above. The Council provides support for South Dakota mathematics teachers, connecting them to each other, and acts as a clearinghouse for information regarding mathematics and mathematics education. Members act individually and collectively as consultants for school districts and for the South Dakota Department of Education.

***South Dakota EdWeb:*** <http://www.sdedweb.com>

Created for South Dakota educators, parents and students, the South Dakota EdWeb provides a user-friendly format to connect to the worldwide web. The Educator section provides links to instructional resources, lesson plans, and on-line activities that have been correlated to the South Dakota core content standards. The Student section provides a safe on-line learning environment with access to learning activities and homework help to assist K-12 students to succeed in their studies. The Parent section provides an index to websites that promote best practices and support parents within all areas of child rearing.